

# Diabetic Medicine

Journal of the British Diabetic Association

## Contents Volume 12 Numbers 1-12

### January 1995

### Number 1

<b>DM Diary</b>	2
<b>Forthcoming Papers</b>	4
<b>Editorial</b>	5
<b>Review</b>	6
<b>Rostrum</b>	14
<b>History of Diabetes</b>	19
<b>Original Articles</b>	24
<b>Thinness at Birth and Glucose Tolerance in Seven-year-old Children</b> <i>C. M. Law, C. S. Gordon, A. W. Shiell, D. J. P. Barker, C. N. Hales</i>	24
<b>Undiagnosed Glucose Intolerance in the Community: the Isle of Ely Diabetes Project</b> <i>D. R. R. Williams, N. J. Wareham, D. C. Brown, C. D. Byrne, P. M. S. Clark, B. D. Cox, L. J. Cox, N. E. Day, C. N. Hales, C. R. Palmer, J. R. Shackleton, T. W. M. Wang</i>	30
<b>Skin Capillary Circulation is More Impaired in the Toes of Diabetic than Non-diabetic Patients with Peripheral Vascular Disease</b> <i>G. Jörneskog, K. Brismar, B. Fagrell</i>	36
<b>Night Blood Pressure: Relation to Organ Lesions in Microalbuminuric Type 1 Diabetic Patients</b> <i>K. W. Hansen, K. Sørensen, P. D. Christensen, E. B. Pedersen, J. S. Christiansen, C. E. Mogensen</i>	42
<b>Cigarette Smoking and Free Radical Activity in Young Adults with Insulin-dependent Diabetes</b> <i>M. B. Leonard, K. Lawton, I. D. Watson, A. Patrick, A. Walker, I. McFarlane</i>	46
<b>Blood Rheology and Albumin Excretion in Diabetic Pregnancy</b> <i>S. M. MacRury, S. Pinion, J. D. Quin, D. St. J. O'Reilly, C. B. Lunan, G. D. O. Lowe, A. C. MacCuish</i>	51
<b>Insulin Secretion and Sensitivity in Women Fulfilling WHO Criteria for Gestational Diabetes</b> <i>J. S. D. Nicholls, S. P. Chan, K. Ali, R. W. Beard, A. Dornhorst</i>	56

Indexed or abstracted by: Annals of Behavioral Medicine Abstracts, BIOMED Database (Institute for Scientific Information (ISI)), CAB Abstracts, Cambridge Scientific Abstracts, Current Awareness in Biosciences, Current Contents/Clinical Medicine, Excerpta Medica, Index Medicus, Research Alert (ISI), SCISEARCH Database (ISI), VINITI-USSR Academy of Sciences.

### COPYING OF ARTICLES

The code and the copyright notice appearing at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use, or for the personal or internal use of specific clients, on the condition that the copier pay for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. The per-copy fee is to be paid through the Copyright Clearance Center Inc and details of their authorisation schemes can be obtained from them at 27 Congress Street, Salem, MA 01970, USA. Tel: (508) 744 3350; Fax: (508) 745 9379. The consent does not extend to other kinds of copying such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. Such permission requests, or other inquiries, should be addressed to the publisher.

# VOLUME CONTENTS



	Factors Influencing the Low Density Lipoprotein Profile in Type 2 Diabetic Patients R. W. James, M. Marini, J. Ruiz, D. Pometta .....	61
	Insulin Resistance with Respect to Lipolysis in Non-diabetic Relatives of European Patients with Type 2 Diabetes S. V. Gelding, N. Coldham, R. Nithyananthan, A. Anyaoku, D. G. Johnston .....	66
Clinical Practice	'Hospital Hyperglycaemia'; Perception or Reality? M. Vijaya Lakshmi, K. L. Tieszen, S. Hollis, L. Wong, T. L. Dornan .....	74
	Aetiopathogenesis and Management of Impotence in Diabetic Males: Four Years Experience from a Combined Clinic A. Veves, L. Webster, T. F. Chen, S. Payne, A. J. M. Boulton .....	77
Technical Report	DIAMOND: a Computerized System for the Management and Evaluation of District-wide Diabetes Care P. G. Kopelman, J. C. Michell, A. J. Sanderson...	83
Meeting Reports	The Diabetic Foot 1994 J. E. Shaw, L. Vileikyte, H. Connor, A. J. M. Boulton ...	88
	First Parallel Medical and Scientific Section Together with Education and Professional Care Section (MSS/EPCS) of the BDA: Autumn 1994, Lancaster, UK C. Bodmer.....	91
Statistical Guidelines	.....	93

## February 1995

## Number 2

Editorial	Statistics in Diabetic Medicine S. Hollis .....	100
Review	Maternally Inherited Diabetes Mellitus: the Role of Mitochondrial DNA Defects J. C. Alcolado, A. W. Thomas .....	102
Comment	Does Psychological Stress Cause Diabetes? J. K. Wales .....	109
Rostrum	The Emotional World of the Diabetic Patient M. H. L. Ivinson .....	113
Original Articles	Cardiovascular Morbidity and Mortality in Type 2 Diabetic Patients: a 22-year Historical Cohort Study in Dutch General Practice W. J. C. de Grauw, E. H. van de Lisdonk, H. M. van den Hoogen, C. van Weel .....	117
	Topical Treatment of Diabetic Foot Ulcers: an Economic Analysis of Treatment Alternatives and Strategies J. Apelqvist, G. Ragnarson-Tennvall, J. Larsson .....	123
	Final Adult Height and its Relationship to Blood Glucose Control and Microvascular Complications in IDDM J. Penfold, H. P. Chase, G. Marshall, C. F. Walravens, P. A. Walravens, S. K. Garg .....	129
	Frequency, Severity and Symptomatology of Hypoglycaemia: a Comparative Trial of Human and Porcine Insulins in Type 1 Diabetic Patients K. M. MacLeod, A. E. Gold, B. M. Frier .....	134
	A Longitudinal Study of Biomedical and Psychosocial Predictors of Multiple Hospitalizations Among Young People with Insulin-dependent Diabetes Mellitus M. Kovacs, D. Charron-Prochownik, D. S. Obrosky .....	142
	Proteinuria and Mortality in Diabetes: the WHO Multinational Study of Vascular Disease in Diabetes J. M. Stephenson, S. Kenny, L. K. Stevens, J. H. Fuller, E. Lee and the WHO Multinational Study Group .....	149
	Whole-body Glucose Metabolism in Obese Patients with Type 2 Diabetes Mellitus: the Impact of Hypertension and Strict Blood Glucose Control H. Vestergaard, H. H. Parving, L. Hansen, O. Pedersen .....	156
	One-year Acarbose Treatment Raises Fasting Serum Acetate in Diabetic Patients T. M. S. Wolever, R. Radmard, J.-L. Chiasson, J. A. Hunt, R. G. Josse, C. Palmason, N. W. Rodger, S. A. Ross, E. A. Ryan, M. H. Tan .....	164
Technical Report	Evaluation of a Second-generation Electrochemical Blood Glucose Monitoring System K. L. Tieszen, S. F. Burton, T. L. Dornan, D. R. Matthews, J. R. McMurray .....	173
Meeting Report	The Twelfth Anglo-Danish-Dutch Diabetes Group Meeting M. J. Davies, C. J. Tack .....	177

<b>Letters</b>	<b>Atraumatic Fracture in Type 1 Diabetes</b> <i>S. A. Khan, H. A. Kurwa, M. G. Prentice</i> .....	179
	<b>Diabetes and Dementia</b> <i>F. G. Lithner</i> .....	180
<b>Media Review</b>	.....	181

## March 1995

## Number 3

<b>Forthcoming Papers</b>	.....	186
<b>DM Diary</b>	.....	190
<b>Editorial</b>	<b>Twins for Life</b> <i>A. J. M. Boulton</i> .....	191
<b>Review</b>	<b>Postural Hypotension in Diabetic Autonomic Neuropathy: a Review</b> <i>T. S. Purewal, P. J. Watkins</i> .....	192
<b>Comment</b>	<b>Implementation of Intensified Insulin Therapy: a European Perspective</b> <i>M. Berger, I. Mühlhauser</i> .....	201
<b>Original Articles</b>	<p><b>Clinical Characteristics of Subjects with a Missense Mutation in Glucokinase</b> <i>R. C. L. Page, A. T. Hattersley, J. C. Levy, B. Barrow, P. Patel, D. Lo, J. S. Wainscoat, M. A. Permutt, G. I. Bell, R. C. Turner</i> .....</p> <p><b>Forearm Substrate Exchange during Hyperinsulinaemic Hypoglycaemia in Normal Man</b> <i>N. Abildgaard, L. Ørskov, J. A. K. Petersen, K. G. M. M. Alberti, O. Schmitz, N. Møller</i> .....</p> <p><b>Day-to-day Variation of Insulin Sensitivity in Patients with Type 1 Diabetes: Role of Gender and Menstrual Cycle</b> <i>E. Moberg, M. Kollind, P.-E. Lins, U. Adamson</i> .....</p> <p><b>Decreased Urinary Dopamine Excretion and Disturbed Dopamine/Sodium Relationship in Type 1 Diabetes Mellitus</b> <i>O. Segers, E. Gerlo, A. G. Dupont, G. Somers</i> .....</p> <p><b>Intranasal Insulin: the Effects of Three Dose Regimens on Postprandial Glycaemic Profiles in Type II Diabetic Subjects</b> <i>P. A. Coates, I. S. Ismail, S. D. Luzio, I. Griffiths, R. L. Ollerton, A. Vølund, D. R. Owens</i> .....</p> <p><b>Hydroxyproline Excretion is Increased in Diabetes Mellitus and Related to the Presence of Microalbuminuria</b> <i>P. L. Selby, P. A. Shearing, S. M. Marshall</i> .....</p> <p><b>High Prevalence of Hepatitis C Infection in Afro-Caribbean Patients with Type 2 Diabetes and Abnormal Liver Function Tests</b> <i>H. Gray, T. Wregitt, I. M. Stratton, G. J. M. Alexander, R. C. Turner, S. O'Rahilly</i> .....</p> <p><b>The Effects of Lipid Lowering Drugs on Metabolic Control and Lipoprotein Composition in Type 2 Diabetic Patients with Mild Hyperlipidaemia</b> <i>M. W. Stewart, R. G. Dyer, K. G. M. M. Alberti, M. F. Laker</i> .....</p> <p><b>Thrombomodulin Levels in Insulin-dependent Diabetic Patients with Microalbuminuria</b> <i>G. Gruden, G. Pagano, R. Romagnoli, D. Frezet, C. Olivetti, P. Cavallo-Perin</i> .....</p>	209
<b>Clinical Practice</b>	<b>Microalbuminuria as Identified by a Spot Morning Urine Specimen in Non-insulin-treated Diabetes: an Eight-year Follow-up Study</b> <i>O. L. Beatty, C. M. Ritchie, P. M. Bell, D. R. Hadden, L. Kennedy, A. B. Atkinson</i> .....	244
<b>Case Report</b>	<b>Multiple Cerebral Haematomata and Peripheral Nerve Palsies Associated with a Case of Juvenile Diabetic Ketoacidosis</b> <i>S. L. Atkin, A. M. Coady, D. Horton, N. Sutaria, L. Sellars, C. Walton</i> .....	267
<b>International Scene</b>	<b>A Computerized Health Screening and Follow-up System in Diabetes Mellitus</b> <i>J. Azzopardi, F. F. Fenech, Z. Junoussov, A. Mazovetsky, V. Olchanski</i> .....	271
<b>Letters</b>	<b>History of Diabetes: UGDP Study Group</b> <i>R. J. Jarrett</i> .....	277
	<b>Severe Deterioration in Cognitive Function and Personality in Patients with Long-standing Diabetes</b> <i>E. S. Kisch</i> .....	277
<b>Media Review</b>	.....	278
		1143

## April 1995

## Number 4

<b>DM Diary</b>	282
<b>Forthcoming Papers</b>	286
<b>Errata</b>	288
<b>Editorial</b>	289
<b>Mini-symposium</b>	291
A World of Diabetes: All Our Problem <i>P. D. Home</i>	289
Diabetic Neuropathy: Introduction <i>A. J. M. Boulton, G. Menzinger</i>	291
Nitric Oxide as a Potential Bridge Between the Metabolic and Vascular Hypotheses of Diabetic Neuropathy <i>M. J. Stevens</i>	292
Catecholamines and Diabetic Autonomic Neuropathy <i>J. Hilsted</i>	296
Diabetic Neuropathy and the Microcirculation <i>M. D. Flynn, J. E. Tooke</i>	298
<b>Original Articles</b>	
Does Abnormal QT Interval Prolongation Reflect Autonomic Dysfunction in Diabetic Patients? QTc Interval Measure versus Standardized Tests in Diabetic Autonomic Neuropathy <i>M. Veglio, A. Chinaglia, M. Borrà, P. Cavallo-Perin</i>	302
Is ACE Inhibition with Lisinopril Helpful in Diabetic Neuropathy? <i>A. Reja, S. Tesfaye, N. D. Harris, J. D. Ward</i>	307
The Prevalence of Autonomic and Peripheral Neuropathy in Insulin-treated Diabetic Subjects <i>M. D. Flynn, I. A. O'Brien, R. J. M. Corrall</i>	310
Good Blood Glucose Control Characterizes Patients Without Retinopathy After Long Diabetes Duration <i>C. E. Kullberg, H. J. Arnqvist</i>	314
Hyperinsulinaemia of Hypertriglyceridaemia: A Reappraisal <i>R. Gama, S. Shah, J. Wright, V. Marks</i>	321
Assessing the Impact of Blood Sample Type on the Estimated Prevalence of Impaired Glucose Tolerance and Diabetes Mellitus in Epidemiological Surveys <i>M. Farrer, C. J. Albers, H. A. W. Neil, P. C. Adams, M. F. Laker, K. G. M. M. Alberti</i>	325
Fetal Growth and Glucose and Insulin Metabolism in Four-year-old Indian Children <i>C. S. Yajnik, C. H. D. Fall, U. Vaidy, A. N. Pandit, A. Bavdekar, D. S. Bhat, C. Osmond, C. N. Hales, D. J. P. Barker</i>	330
<b>Technical Reports</b>	
Effect of Ambient Temperature and Humidity on Performance of Blood Glucose Meters <i>J. M. King, C. A. Eigenmann, S. Colagiuri</i>	337
The Effect of Haemolysis on Blood Glucose Meter Measurement <i>E. S. Kilpatrick, A. G. Rumley, C. N. Rumley</i>	341
The Insulin-dependent Patient: Perceptions and Preferences <i>C. Fox</i>	344
Evaluation of a Structured Teaching and Treatment Programme for Type 2 Diabetes in General Practice in a Rural Area of Austria <i>T. R. Pieber, A. Holler, A. Siebenhofer, G. A. Brunner, B. Semlitsch, S. Schattenberg, H. Zapotoczky, W. Rainer, G. J. Krejs</i>	349
Diabetic Retinopathy as a Cause of Blindness in the Province of Turin, North-west Italy, in 1967-1991 <i>M. Porta, M. G. Tomalino, F. Santoro, L. D. Chigo, M. Cairo, M. Aimone, G. B. Pietragalla, P. Passera, M. Montanaro, G. M. Molinatti</i>	355
<b>Letters</b>	
The Effect of Haematocrit and Sample Temperature on the Glucotide/Glucometer 4 Blood Glucose Assay System <i>K. Wiener</i>	362
Detection of Microalbuminuria <i>J. M. Botero</i>	364
Reply from M. P. Hermans, P. Selvai and M. van Ypersele de Strihou	364
A World of Diabetes: All Our Problem <i>P. Selby</i>	364
<b>Diabetes Care</b>	
Contents Pages — Volume 18 Numbers 1 and 2 by arrangement with the American Diabetes Association	365

## May 1995

## Number 5

<b>DM Diary</b>	370
<b>Forthcoming Papers</b>	371

<b>Editorial</b>	<b>Cochrane Collaborative Review Group: Diabetes</b> C. M. Airey, D. R. R. Williams .....	375
<b>Rostrum</b>	<b>The Genetic Contribution to Disease Pathogenesis in Childhood Diabetes is Greatest in the Very Young</b> J. P. H. Shield, E. J. K. Wadsworth, J. D. Baum .....	377
<b>Original Articles</b>	<b>The Neuronal Toxic Factor in Serum of Type 1 Diabetic Patients is a Complement-fixing Autoantibody</b> G. L. Pittenger, D. Liu, I. Vinik .....	380
	<b>Glomerular Charge Selectivity in Type 1 (Insulin-dependent) Diabetes Mellitus</b> J. G. Fox, J. D. Quin, K. R. Paterson, D. Stj. O'Reilly, M. P. Smith, J. M. Boulton-Jones .....	387
	<b>Effects of Glucose and SNK-860, an Aldose Reductase Inhibitor, on the Polyol Pathway and Chemiluminescence Response of Human Neutrophils <i>in vitro</i></b> T. Kawamura, K. Suzuki, H. Matsumae, T. Sano, N. Sakamoto, N. Hotta .....	392
	<b>Epidemiology of Diabetes Mellitus in the Elderly in Northern Greece: a Population Study</b> N. Papazoglou, Ch. Manes, P. Chatzimirofanous, E. Papadeli, K. Tzounas, G. Scaragas, I. Kontogiannis, D. Alexiades .....	397
	<b>Energy Expenditure in Type 2 Diabetic Patients on Metformin and Sulphonylurea Therapy</b> P. K. K. Chong, R. T. Jung, M. J. Rennie, C. M. Scrimgeour .....	401
	<b>The Comparison of Four Weight Reduction Strategies Aimed at Overweight Diabetic Patients</b> R. M. Manning, R. T. Jung, G. P. Leese, R. W. Newton .....	409
<b>Clinical Practice</b>	<b>A Study of Fluoxetine on Obese Elderly Patients with Type 2 Diabetes</b> V. M. Connolly, A. Gallagher, C. M. Kesson .....	416
	<b>A Report on the Use of Technician Ophthalmoscopy Combined with the Use of the Canon Non-mydiatic Camera in Screening for Diabetic Retinopathy in the Community</b> J. Jacob, J. Stead, J. Sykes, D. Taylor, J. E. Tooke .....	419
	<b>Use of Thrombolysis for Acute Myocardial Infarction in the Presence of Diabetic Retinopathy in the UK, and Associated Ocular Haemorrhagic Complications</b> E. R. Higgs, V. J. Parfitt, B. A. Harney, M. Hartog .....	426
	<b>Abnormal Insulin Treatment Behaviour: a Major Cause of Ketoacidosis in the Young Adult</b> C. J. Thompson, F. Cummings, J. Chalmers, R. W. Newton .....	429
<b>Case Report</b>	<b>Factitious Hypoglycaemia Documented by a Modified Assay for the Measurement of Plasma Sulphonylurea</b> A. Sener, C. Gillet, J. Verhelst, K. DeBoeck, C. Maher, W. J. Malaisse .....	433
<b>International Scene</b>	<b>Educating the Diabetes Care Professionals in Eastern Europe: a Bulgarian Experience</b> V. I. Christov, I. Nestorov, A. Dimitrov .....	436
	<b>Retinopathy in Maltese Type 2 Diabetic Patients</b> A. G. Schranz, L. Zarabinska .....	441
<b>Technical Report</b>	<b>A Reproducibility Study of Technetium-99m Macroaggregated Albumin Foot Perfusion Imaging in Patients with Diabetes Mellitus</b> N. D. C. Sturrock, A. C. Perkins, M. L. Wastie, K. R. Blackband, K. T. Moriarty .....	445
<b>Letters</b>	<b>Are Islet Cell Antibodies of Prognostic Value in Obese Subjects with Late-onset Diabetes?</b> M. van Ypersele, J. Rahier, P. L. Selvais, M. P. Hermans .....	449
	<b>Do Insulin-treated Diabetic Patients use an Injection-meal-interval in Daily Life?</b> L. Heinemann .....	449
	<b>ExacTech Blood Glucose Meter</b> S. Rao .....	450
	<b>Reply from E. S. Kilpatrick and A. G. Rumley</b> .....	451
	<b>Postprandial Triglyceridaemia</b> N. Katsilambros .....	451
	<b>Reply from M. Stewart and M. F. Laker</b> .....	452
	<b>Can the Use of Lists Improve the Proportion of Concerns Addressed in the Consultation?</b> I. Benett .....	452
<b>Media Review</b>	.....	455

June 1995

Number 6

<b>DM Diary</b>	.....	458
<b>Forthcoming Papers</b>	.....	460
<b>Editorial</b>	<b>The International Diabetes Federation: the Next Millennium</b> J. Jervell .....	465
		1145

# VOLUME CONTENTS



<b>Review</b>	<b>Drugs on the Horizon for Treatment of Type 2 Diabetes</b> <i>J. Rachman, R. C. Turner</i> .....	467
<b>Rostrum</b>	<b>Non-insulin-dependent Diabetes Mellitus and Islet B-cell Mitochondrial Glycerophosphate Dehydrogenase Deficiency</b> <i>W. J. Malaisse</i> .....	479
<b>Original Articles</b>	<b>The Natural Course of Microalbuminuria in Insulin-dependent Diabetes: a 10-year Prospective Study</b> <i>E. R. Mathiesen, B. Rønn, B. Storm, H. Foght, T. Deckert</i> .....	482
	<b>Urinary Albumin Excretion in a Population Based Cohort</b> <i>E. Vestbo, E. M. Damsgaard, A. Freland, C. E. Mogensen</i> .....	488
	<b>The Relationship Between Pregnancy and Long-term Maternal Complications in the EURODIAB IDDM Complications Study</b> <i>N. Chaturvedi, J. M. Stephenson, J. H. Fuller and the EURODIAB IDDM Complications Study Group</i> .....	494
	<b>The Frequency of Known Diabetes, Hypertension and Ischaemic Heart Disease in Affluent and Poor Urban Populations of Karachi, Pakistan</b> <i>K. Hameed, M. Kadir, T. Gibson, S. Sultana, Z. Fatima, A. Syed</i> .....	500
	<b>Coagulation Activation in Type 2 Diabetes Mellitus: the Higher Coronary Risk of Female Diabetic Patients</b> <i>P. Chan, W. H. Pan</i> .....	504
	<b>Longitudinal Study of Lipoprotein(a) in Peripubertal Children with Insulin-dependent Diabetes</b> <i>J. J. Couper, R. Coccilone, D. J. Bates, J. Nairn, R. G. Ryall</i> .....	508
	<b>The Splanchnic Circulation and Postural Hypotension in Diabetic Autonomic Neuropathy</b> <i>T. S. Purewal, D. E. Coss, M. M. Zanone, M. E. Edmonds, P. J. Watkins</i> .....	513
	<b>Importance of Early Insulin Levels on Prandial Glycaemic Responses and Thermogenesis in Non-insulin-dependent Diabetes Mellitus</b> <i>T. P. Markovic, S. M. Furler, A. B. Jenkins, L. V. Campbell, E. W. Kraegen, D. J. Chisholm</i> .....	523
<b>Clinical Practice</b>	<b>An Optical Practice Based Diabetic Eye Screening Programme</b> <i>W. Gatling, A. J. Howie, R. D. Hill</i> .....	531
	<b>Comparative Analysis of Patency, Limb Salvage and Survival in Diabetic and Non-diabetic Patients Undergoing Infrainguinal Bypass Surgery</b> <i>S. Karacagil, B. Almgren, S. Bowald, D. Bergqvist</i> .....	537
<b>Case Report</b>	<b>Nesidioblastosis in an Elderly Patient</b> <i>D. Walmsley, N. A. Matheson, S. Ewen, R. L. Himsworth, J. S. Bevan</i> .....	542
<b>International Scene</b>	<b>Mortality and Outcome of Insulin-dependent Diabetes in Soweto, South Africa</b> <i>G. V. Gill, K. R. Huddle, M. Rolfe</i> .....	546
<b>Diabetes Care</b>	<b>Contents Pages—Volume 18, Numbers 3 and 4 by arrangement with the American Diabetes Association</b> .....	551

July 1995

Number 7

<b>DM Diary</b>	.....	558
<b>Forthcoming Papers</b>	.....	559
<b>Editorial</b>	<b>Prevention of Macrovascular Disease: Absolute Proof or Absolute Risk</b> <i>P. N. Durrington</i> .....	561
<b>Reviews</b>	<b>Is There a Seasonal Variation in the Incidence of Gestational Diabetes?</b> <i>R. G. Moses, R. Griffiths</i> .....	563
	<b>The Aetiology of Diabetic Neuropathy: the Combined Roles of Metabolic and Vascular Defects</b> <i>M. J. Stevens, E. L. Feldman, D. A. Greene</i> .....	566
<b>History of Diabetes</b>	<b>The Roots of Ariel: Sylvia Plath and Her Father's Foot</b> <i>A. V. M. Foster, M. E. Edmonds</i> .....	580
<b>Original Articles</b>	<b>Differences in Joint Mobility and Foot Pressures Between Black and White Diabetic Patients</b> <i>A. Veves, M. R. Sarnow, J. M. Giurini, B. I. Rosenblum, T. E. Lyons, J. S. Chrzan, G. M. Habershaw</i> .....	585

<b>The Association of Fibrinolysis and Hyperlipidaemia with Quantitative Sensory Tests in an Epidemiological Study of Swedish Type 1 Diabetic Patients</b>	<b>F. Lithner, T. Bergenheim, B. Borsén, G. Dahlén, T. K. Nilsson</b>	590
<b>Heat Shock Protein Studies in Type I and Type II Diabetes and Human Islet Cell Culture</b>	<b>D. F. Child, C. P. Williams, R. P. Jones, P. R. Hudson, M. Jones, C. J. Smith</b>	595
<b>Comparison of the Effects on the Diurnal Blood Pressure, Glucose, and Lipid Levels of a Diet Rich in Monounsaturated Fatty Acids with a Diet Rich in Polyunsaturated Fatty Acids in Type 2 Diabetic Subjects</b>	<b>C. Thomsen, O. W. Rasmussen, K. W. Hansen, M. Vesterlund, K. Hermansen</b>	600
<b>Short-term Mortality in Childhood Onset Insulin-dependent Diabetes Mellitus: a High Frequency of Unexpected Deaths in Bed</b>	<b>G. Sartor, G. Dahlquist</b>	607
<b>Psychosocial Predictors of Acute Complications of Diabetes in Youth</b>	<b>R. Herskowitz Dumont, A. M. Jacobson, C. Cole, S. T. Hauser, J. I. Wolfsdorf, J. B. Willett, J. E. Milley, D. Werthlieb</b>	612
<b>Clinical Practice</b>	<b>Diabetes Care in South Asian and White European Patients with Type 2 Diabetes</b>	619
	<b>C. F. Close, P. G. Lewis, R. Holder, A. D. Wright, M. Natrass</b>	
	<b>Frequency of Thyroid Dysfunction in Diabetic Patients: Value of Annual Screening</b>	622
	<b>P. Perros, R. J. McCrimmon, G. Shaw, B. M. Frier</b>	
	<b>Glycated Haemoglobin Levels in Patients with Diabetes in One General Practice Over a 10-year Period</b>	628
	<b>C. Bradshaw, I. N. Steen, M. Eccles</b>	
	<b>Reduction of Gangrene and Amputations in Diabetic Renal Transplant Patients: the Role of a Special Foot Clinic</b>	632
	<b>A. V. M. Foster, S. Snowden, A. Grenfell, P. J. Watkins, M. E. Edmonds</b>	
<b>Meeting Report</b>	<b>The Acropolis Affirmation: <i>Diabetes Care—St Vincent in Progress</i> Statement from St Vincent Declaration Meeting, Athens, Greece, March 1995</b>	636
<b>Letters</b>	<b>Random Blood Glucose Estimation in Type 2 Diabetes: Does it Reflect Overall Glycaemic Control?</b>	637
	<b>M. C. Gulliford</b>	
	<b>Reply from G. V. Gill, K. J. Hardy, A. W. Patrick, A. Masterson</b>	637
	<b>Hypoglycaemic Threshold After Pancreatic Transplantation</b>	637
	<b>C. Sachon, B. Barrou, C. Landault, M. O. Bitker, J. P. Bastard, A. Grimaldi</b>	

August 1995

Number 8

<b>DM Diary</b>	644	
<b>Forthcoming Papers</b>	646	
<b>Editorial</b>	647	
<b>Review</b>	649	
<b>Original Articles</b>		
<b>Screening for Microalbuminuria in Type 2 Diabetic Patients: The Evaluation of a Dipstick Test in General Practice</b>	<b>W. J. C. de Grauw, E. H. van de Lisdonk, H. J. M. van den Hoogen, W. H. E. M. van Gerwen, W. J. H. M. van den Bosch, J. L. Willems, C. van Weel</b>	657
<b>Insulin Increases Renal Magnesium Excretion: A Possible Cause of Magnesium Depletion in Hyperinsulinaemic States</b>	<b>M. S. Djurhuus, P. Skott, O. Hother-Nielsen, N. A. H. Klitgaard, H. Beck-Nielsen</b>	664
<b>Decreased Sialidase Activity in Mononuclear Leucocytes of Type 1 Diabetic Subjects: Relationship to Diabetic Complications and Glycaemic Control</b>	<b>P. J. Waters, M. D. Flynn, C. A. Pennock, R. J. M. Corrall, R. J. Greenwood, R. Eisenthal</b>	670
<b>No Important Differences in Glycaemic Responses to Common Fruits in Type 2 Diabetic Patients</b>	<b>M. Lunetta, M. Di Mauro, S. Crimi, L. Mughini</b>	674
<b>Neuropsychological Function in Older Subjects with Non-insulin-dependent Diabetes Mellitus</b>	<b>J. A. Atiea, J. L. Moses, A. J. Sinclair</b>	679
		1147

# VOLUME CONTENTS



	<b>Relation of Fetal Growth to Adult Muscle Mass and Glucose Tolerance</b>	686
<b>Clinical Practice</b>	<b>Comprehensive Diabetes Care in North Tyneside</b> <i>D. L. Whitford, A. J. Southern, E. Braid, S. H. Roberts</i>	691
	<b>Variation of Diabetes Mellitus Prevalence in General Practice and its Relation to Deprivation</b> <i>P. Meadows</i>	696
	<b>Ethnic Differences in the Perception of a Video Developed for a Multiethnic Diabetes Prevention Programme in South Auckland, New Zealand</b> <i>C. Fleming, D. Simmons, L. Leakehe, J. Voyle</i>	701
	<b>An Evaluation of Fructosamine Estimation in Screening for Gestational Diabetes Mellitus</b> <i>P. F. Hughes, M. Agarwal, P. Newman, J. Morrison</i>	708
<b>Technical Report</b>	<b>Are Frozen Urine Samples Acceptable for Estimating Albumin Excretion in Research?</b> <i>J. P. H. Shield, L. P. Hunt, J. E. Morgan, C. A. Pennock</i>	713
<b>Working Party Report</b>	<b>The UK Diabetes Dataset: A Standard for Information Exchange</b> <i>N. J. A. Vaughan, P. D. Home (for the Diabetes Audit Working Group of the Research Unit of the Royal College of Physicians and the British Diabetic Association)</i>	717
<b>Letters</b>	<b>Aetiopathogenesis and Management of Impotence in Diabetic Males</b> <i>W. D. Alexander, M. Cumings</i>	723
	<b>A Desktop Guide for the Management of Non-insulin-dependent Diabetes Mellitus (NIDDM) by the European NIDDM Policy Group</b> <i>A. J. Sinclair</i>	724
	<b>Reply from K. G. M. M. Alberti</b>	724
	<b>The Vitamin C Connection</b> <i>E. Cheraskin</i>	725
<b>Diabetes Care</b>	<b>Contents Pages—Volume 18, Numbers 5 and 6</b> <i>by arrangement with the American Diabetes Association</i>	726

September 1995

Number 9

<b>DM Diary</b>	732
<b>Forthcoming Papers</b>	734
<b>Announcement</b>	736
<b>Editorial</b>	737
<b>History of Diabetes</b>	739
<b>Original Articles</b>	756
<b>Decreasing Incidence of Major Amputation in Diabetic Patients: a Consequence of a Multidisciplinary Foot Care Team Approach?</b> <i>J. Larsson, J. Apelqvist, C.-D. Agardh, A. Stenström</i>	770
<b>The Costs of Diabetes-related Lower Extremity Amputations in the Netherlands</b> <i>W. H. van Houtum, L. A. Lavery, L. B. Harkless</i>	777
<b>Dead in Bed Syndrome in Young Diabetic Patients in Norway</b> <i>H. Thordarson, O. Søvik</i>	782
<b>Marked Hyperinsulinaemia in Postmenopausal, Healthy Indian (Asian) Women</b> <i>G. M. B. Berger, J. Naidoo, N. Gounden, E. Gouws</i>	788
<b>Fetal Growth and Insulin Resistance in Adult Life: Role of Plasma Triglyceride and Non-esterified Fatty Acids</b> <i>D. I. W. Phillips, R. McLeish, C. Osmond, C. N. Hales</i>	796
<b>Plasma Lipid Peroxidation and Hyperglycaemia: a Connection Through Hyperinsulinaemia?</b> <i>L. K. Niskanen, J. T. Salonen, K. Nyssönen, M. I. J. Uusitupa</i>	802
<b>Reduced Plasma Aldosterone Concentrations in Randomly Selected Patients with Insulin-dependent Diabetes Mellitus</b> <i>C. C. Cronin, D. Barry, B. Crowley, J. B. Ferriss</i>	809

	<b>Indications of Low Sex Hormone Binding Globulin (SHBG) in Young Females with Type 1 Diabetes, and an Independent Association to Microalbuminuria</b> <i>S. Rudberg, B. Persson</i> .....	816
	<b>Insulin-like Growth Factor-I and IGF-I Receptors in Diabetic Patients with Neuropathy</b> <i>I. N. Migdalis, K. Kalogeropoulou, L. Kalantzis, C. Nounopoulos, A. Bouloukos, M. Samartzis</i> .....	823
<b>Clinical Practice</b>	<b>Differences in Preferences Between Diabetic Patients and Diabetologists Regarding Quality of Care: a Matter of Continuity and Efficiency of Care?</b> <i>A. F. Casparie, M. E. van der Waal</i> .....	828
<b>International Scene</b>	<b>Diabetes Care: a Guideline to the Facilities Needed to Support Internationally Endorsed Standards</b> <i>M. Busch-Sørensen, A. J. Elphick, P. D. Home, B. Thorsteinsson</i> .....	833
<b>Letter</b>	<b>Twining</b> <i>J. G. L. Jackson</i> .....	839
<b>Media Review</b>	.....	840

**October 1995****Number 10**

<b>DM Diary</b>	.....	844
<b>Forthcoming Papers</b>	.....	846
<b>Announcement</b>	<b>Change of Editor</b> .....	848
<b>Editorial</b>	<b>Quantifying the Benefits of Investing in Prevention</b> <i>R. Williams</i> .....	849
<b>Review</b>	<b>Hypoglycaemia—Real and Unreal, Lawful and Unlawful: The 1994 Banting Lecture</b> <i>V. Marks</i> .....	850
<b>Original Articles</b>	<b>Spatial Clustering in Childhood Diabetes: Evidence of an Environmental Cause</b> <i>M. J. Bodington, S. I. Muzulu, A. C. Burden</i> .....	855
	<b>The Prospective Assessment of Autonomic Nerve Function by Pupillometry in Adolescents with Type 1 Diabetes Mellitus</b> <i>M. M. Pena, K. C. Donaghue, A. T. W. Fung, M. Bonney, J. Schwingshandl, N. J. Howard, M. Silink</i> .....	868
	<b>Peripheral Osteopenia in Adult Patients with Insulin-dependent Diabetes Mellitus</b> <i>T. Forst, A. Pfützner, P. Kann, B. Schehler, R. Lobmann, H. Schäfer, J. Andreas, A. Bockisch, J. Beyer</i> .....	874
	<b>More Uniform Diurnal Blood Glucose Control and a Reduction in Daily Insulin Dosage on Addition of Glibenclamide to Insulin in Type 1 Diabetes Mellitus: Role of Enhanced Insulin Sensitivity</b> <i>U. M. Kabadi, S. McCoy, M. Birkenholz, M. Kabadi</i> .....	880
	<b>The Effects of Repeated Daily Recombinant Human Insulin-like Growth Factor I Administration in Adolescents with Type 1 Diabetes</b> <i>T. D. Cheetham, J. M. P. Holly, K. Clayton, S. Cwyfan-Hughes, D. B. Dunger</i> .....	885
	<b>Mortality and Morbidity in Treated Hypertensive Type 2 Diabetic Patients with Micro- or Macroproteinuria</b> <i>P. T. Sawicki, I. Mühlhauser, U. Didurjurgeit, M. Reimann, R. Bender, M. Berger</i> .....	893
	<b>Effects of Age and Obesity on Glycated Haemoglobin and 1,5-Anhydroglucitol in Screening for Type 2 Diabetes Mellitus</b> <i>S. Tsukui, I. Kobayashi</i> .....	899
	<b>Diabetes, Impaired Glucose Tolerance and Cardiovascular Disease Risk Factors in the Asian Indian Bhatia Community Living in Tanzania and in the United Kingdom</b> <i>K. L. Ramaiya, E. Denver, J. S. Yudkin</i> .....	904
	<b>Effects of Heparin-induced Non-esterified Free Fatty Acid on Minimal Model-derived Insulin Sensitivity in Individuals with Varying Degrees of Glucose Intolerance</b> <i>K. Osei, D. P. Schuster</i> .....	911
	<b>Neutrophil Bactericidal Function in Diabetes Mellitus: Evidence for Association with Blood Glucose Control</b> <i>S. J. Gallacher, G. Thomson, W. D. Fraser, B. M. Fisher, C. G. Gemmell, A. C. MacCuish</i> .....	916
	1149	

# VOLUME CONTENTS



A Study of Spermatozoal Motility in Type 1 Diabetes Mellitus G. A. Hitman, D. F. Badenoch .....	921
The Influence of Insulin Antibodies on the Pharmacokinetics of NPH Insulin in Patients with Type 1 Diabetes Treated with Human Insulin O. Klose, R. Hefty, F. Keck, W. Kerner .....	925
Letter The 30 Minute Insulin Incremental Response in an Oral Glucose Tolerance Test as a Measure of Insulin Secretion N. J. Wareham, D. I. W. Phillips, C. D. Byrne, C. N. Hales .....	931
Media Review .....	932
Diabetes Care Contents Pages—Volume 18, Numbers 7 and 8 by arrangement with the American Diabetes Association .....	933

November 1995

Number 11

DM Diary .....	940
Forthcoming Papers .....	942
Announcement .....	946
Editorial .....	947
Review .....	949
Original Articles Trends in Mortality of Childhood-onset Insulin-dependent Diabetes Mellitus in Leicestershire: 1940-1991 P. G. McNally, N. T. Raymond, M. L. Burden, P. R. Burton, J. L. Botha, P. G. F. Swift, A. C. Burden, J. R. Hearnshaw .....	961
Development and Progression of Diabetic Retinopathy: Adolescents at Risk M. Bonney, S. J. Hing, A. T. W. Fung, M. M. Stephens, J. M. Fairchild, K. C. Donaghue, N. J. Howard, M. Silink .....	967
Self-reported Weight Loss Among Adults with Diabetes: Results from a National Health Survey J. C. Will .....	974
The Effect of the Timing and the Administration of Acarbose on Postprandial Hyperglycaemia C. Rosak, G. Nitzsche, P. König, U. Hofmann .....	979
Short Administration of Metformin Improves Insulin Sensitivity in Android Obese Subjects with Impaired Glucose Tolerance A. J. Scheen, M. R. Letiexhe, P. J. Lefèbvre .....	985
Characterization of the Insulin-antagonistic Effect of Growth Hormone in Insulin-dependent Diabetes Mellitus J. Fowelin, S. Attvall, H. von Schenck, U. Smith, I. Lager .....	990
Angiotensin Converting Enzyme (ACE) Insertion/Deletion (I/D) Polymorphism, and Diabetic Retinopathy in Subjects with IDDM and NIDDM D. K. Nagi, M. W. Mansfield, M. H. Stickland, P. J. Grant .....	997
Detection of Common Viruses Using the Polymerase Chain Reaction to Assess Levels of Viral Presence in Type 1 (Insulin-dependent) Diabetic Patients C. A. Foy, P. Quirke, F. A. Lewis, T. S. Futers, H. J. Bodansky .....	1002
Islet Cell Antibodies and Beta-cell Function in Gestational Diabetic Women: Comparison to First-degree Relatives of Type 1 (Insulin-dependent) Diabetic Subjects D. Mauricio, R. Corcaya, M. Codina, J. Morales, M. Balsells, A. de Leiva .....	1009
Prospective Study of Autonomic Nerve Function in Type 1 and Type 2 Diabetic Patients: 24 Hour Heart Rate Variation and Plasma Motilin Levels Disturbed in Parasympathetic Neuropathy H. Nilsson, B. Bergström, B. Lilja, S. Juul-Möller, J. Carlsson, G. Sundkvist .....	1015
Working Party Report Survival Kit: The Five-minute Education Kit: A Document for Health Care Providers and Patients J.-P. Assal .....	1022
Diabetes Care Contents Page — Volume 18, Number 9 by arrangement with the American Diabetes Association .....	1044

## December 1995

## Number 12

<b>DM Diary</b>	1052
<b>Forthcoming Papers</b>	1054
<b>Announcement</b>	1056
<b>Editorial</b>	
<i>Diabetes in the Eastern Mediterranean (Middle East) Region: the World Health Organization Responds to a Major Public Health Challenge</i> <i>H. King</i>	1057
<b>Review</b>	
<i>Nephropathy in Type 1 Diabetes: The Role of Genetic Factors</i> <i>T. A. Chowdhury, S. Kumar, A. H. Barnett and S. C. Bain</i>	1059
<b>Comment</b>	
<i>The Cost of Insulin Dependent Diabetes Mellitus (IDDM) in England and Wales</i> <i>A. M. Gray, P. Fenn and A. McGuire</i>	1068
<b>Original Articles</b>	
<i>Counting the Cost of Diabetic Hospital Admissions from a Multi-Ethnic Population in Trinidad</i> <i>M. C. Gulliford, S. M. Ariyanayagam-Baksh, L. Bickram, D. Picou and D. Mahabir</i>	1077
<i>Microvascular Function in Type 2 (Non-insulin-dependent) Diabetes: Improved Vasodilation after One Year of Good Glycaemic Control</i> <i>A. J. Yaap, C. A. Pym, C. Seemark, A. C. Shore and J. E. Tooze</i>	1086
<i>The Urinary Concentration of Sialic Acid is Increased in Non-insulin-dependent Diabetic Patients with Microangiopathy: a Possible Useful Marker for Diabetic Microangiopathy</i> <i>K. Suzuki, H. Ishida, C. Sugimoto, Y. Taguchi, H. Matsuda, K. Nosaka, Y. Someya, S. Kadowaki and Y. Seino</i>	1092
<i>Effect of Treatment with an Aldose-Reductase Inhibitor on Symptomatic Carpel Tunnel Syndrome in Type 2 Diabetes</i> <i>L. Monge, M. De Mattei, F. Dani, A. Sciarretta and Q. Carta</i>	1097
<i>Symptoms, Hormones and Glucose Fluxes during a Gradual Hypoglycaemia induced by Intrapertitoneal vs Venous Insulin Infusion in Type 1 Diabetes</i> <i>J. L. Selam, R. Medlej, J. M'Bemba, A. Chevalier, F. Guyon, L. Ashworth and G. Slama</i>	1102
<i>The Effect of Acute (60 minute) Insulin Stimulation upon Human Skeletal Muscle Glycogen Synthase and Protein Phosphatase-1 in Non-insulin-dependent Diabetic Patients and Control Subjects</i> <i>L. A. Barriocanal, A. C. Borthwick, M. Stewart, A. Wells, S. J. Hurel, S. J. Yeaman and R. Taylor</i>	1110
<b>International Scene</b>	
<i>Pakistan National Diabetes Survey: Prevalence of Glucose Intolerance and Associated Factors in Shikarpur, Sindh Province</i> <i>A. S. Shera, G. Rafique, I. A. Khwaja, J. Ara, S. Baqai and H. King</i>	1116
<i>High Prevalence of Diabetes Mellitus and Impaired Glucose Tolerance in the Sultanate of Oman: Results of the 1991 National Survey</i> <i>M. G. Asfour, A. Iamboorne, A. Soliman, S. Al-Behlani, D. Al-Asfour, A. Bold, H. Mahtab and H. King</i>	1122
<i>Diabetes Mellitus in Egypt—Risk Factors and Prevalence</i> <i>W. H. Herman, M. A. Ali, R. E. Aubert, M. M. Engelgau, S. J. Kenny, E. W. Gunter, A. M. Malarcher, R. J. Brechner, S. F. Wetterhall, F. DeStefano, T. J. Thompson, P. J. Smith, A. Badran, E. S. Sous, M. Habib, M. Hegazy, S. abd el Shakour, A. S. Ibrahim, A. el Moneim el Behairy</i>	1126
<b>Letters</b>	
<i>The Insulin Dependent Diabetic Patient, Perceptions and Preferences</i> <i>M. R. Kiln</i>	1132
<i>Frequency, Severity and Symptomatology of Hypoglycaemia induced by Human and Porcine Insulins</i> <i>U. Keller, W. Berger</i>	1132
<i>Reply from K. M. MacLeod, A. E. Gold, B. M. Frier</i>	1132
<b>Diabetes Care</b>	
<i>Contents Page — Volume 18, Number 10 by arrangement with the American Diabetes Association</i>	1134
<b>Author Index</b>	1135
<b>Keyword Index</b>	1138
<b>Volume Contents</b>	1141